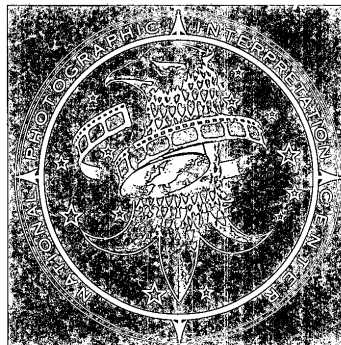


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PHOTOGRAPHIC INTERPRETATION REPORT



SAM ACTIVITY
EGYPT

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APRIL 1970
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SAM ACTIVITY -- EGYPT

ABSTRACT

The deployment of Soviet SA-3 missile sites in Egypt is confirmed for the first time on KEYHOLE photography [redacted] Five sites have been identified in the Alexandria (Al Iskandariyah) area and at least three other possible sites are in the early stages of construction.

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Other significant activity includes the identification of at least 26 T-shaped or linear excavations in various stages of construction. Fifteen are within approximately 20 nautical miles (nm) of the Suez Canal (Qanat As Suways). Some are located near existing SAM sites and they generally resemble guidance areas of certain previously identified SA-2 and SA-3 sites. They will be designated as possible SAM-related facilities.

This report includes a location map and two additional maps keyed to a table giving details of the current SAM deployment, as well as a plan view, a perspective drawing, and a photograph of one of the T-shaped excavations. Two other tables also indicate (1) photo verification of SAM activity reported by collateral sources, and (2) the location and current status of the 26 possible SAM-related facilities.

BASIC DESCRIPTION

A location map (Figure 1) indicates the two regions of SAM deployment in the eastern portion of Egypt. Figures 2 and 3 portray graphically the locations of all known SAM sites, which are numbered to correspond with line item entries in Table 1. The table has been compiled to reflect not only the most current occupancy status of each site, but also to indicate those sites which have been observed to be usually occupied or unoccupied during the past year. In some instances occupancy has varied from time to time.

Positive identification of five SA-3 sites and the possibility of at least three others in the early stages of construction confirms numerous collateral reports that SA-3 equipment had been observed in the Cairo (Al Qahirah) and Alexandria areas. Table 2 provides a list of reported SAM installations and indicates those which were confirmed by photography from [redacted] March 1970.

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Other significant activity, some of which has occurred near existing SA-2 sites, has been the recent construction of at least 26 T-shaped or linear excavations. Because of their general resemblance to guidance areas at certain existing SA-2 and SA-3 sites, they have been designated as possible SAM-related facilities. Some appear similar to the guidance areas at Al Qahirah SA-2 Site (30-06-15N 030-57-45E) and Al Iskandariyah SAM Site B05-2 (31-18-30N 030-03-10E). Their status and locations are cited in Table 3 and they are also included on the SAM deployment maps (Figures 2 and 3.) A plan view, a perspective drawing, and a photograph of the various T-shaped excavations and the structures within them are included as Figures 4, 5, and 6. Information for the drawings and mensural data is based solely on collateral sources.

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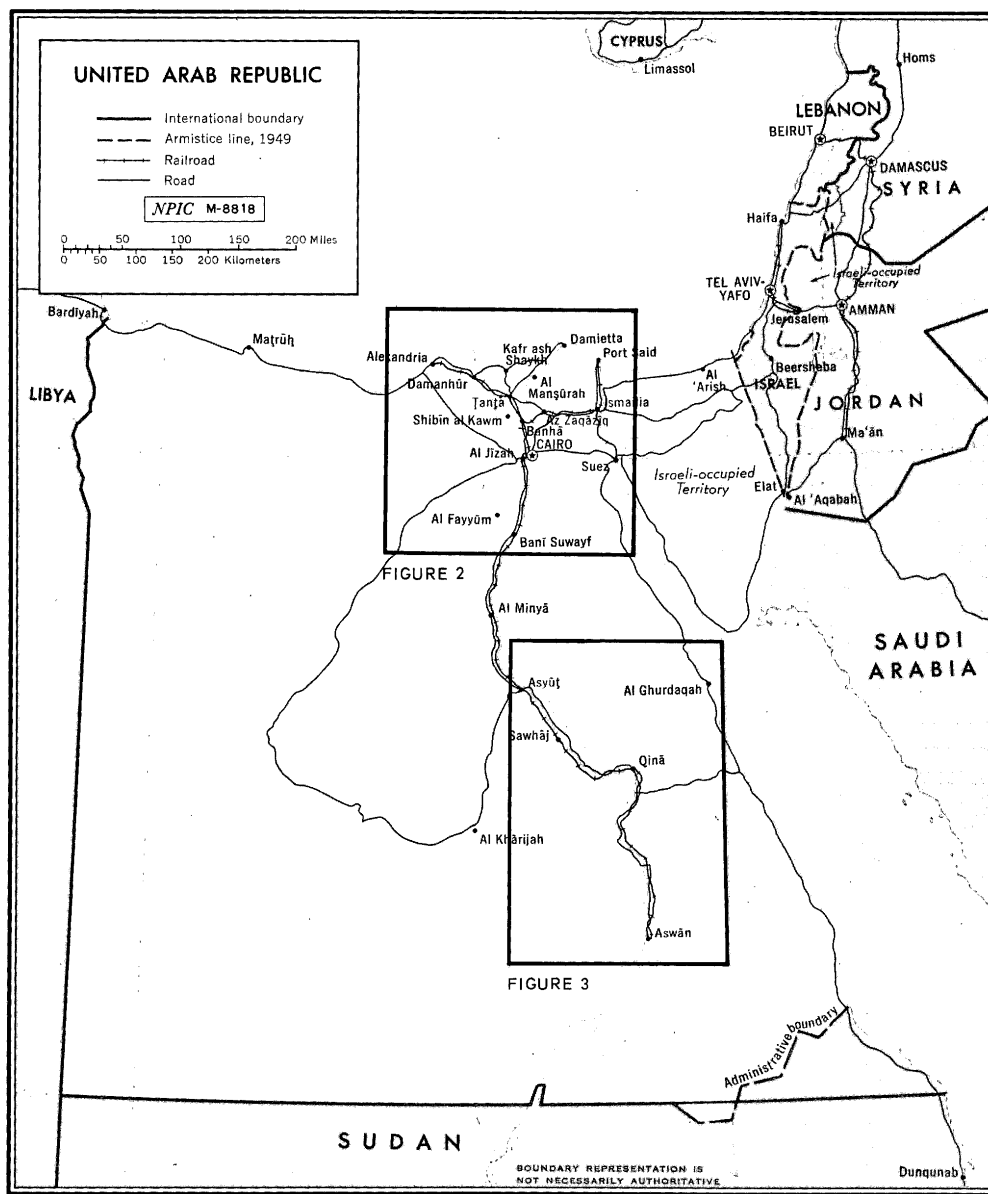
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FIGURE 1. AREAS OF SAM DEPLOYMENT--EGYPT

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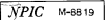


FIGURE 2. NORTHEAST AREA OF EGYPT

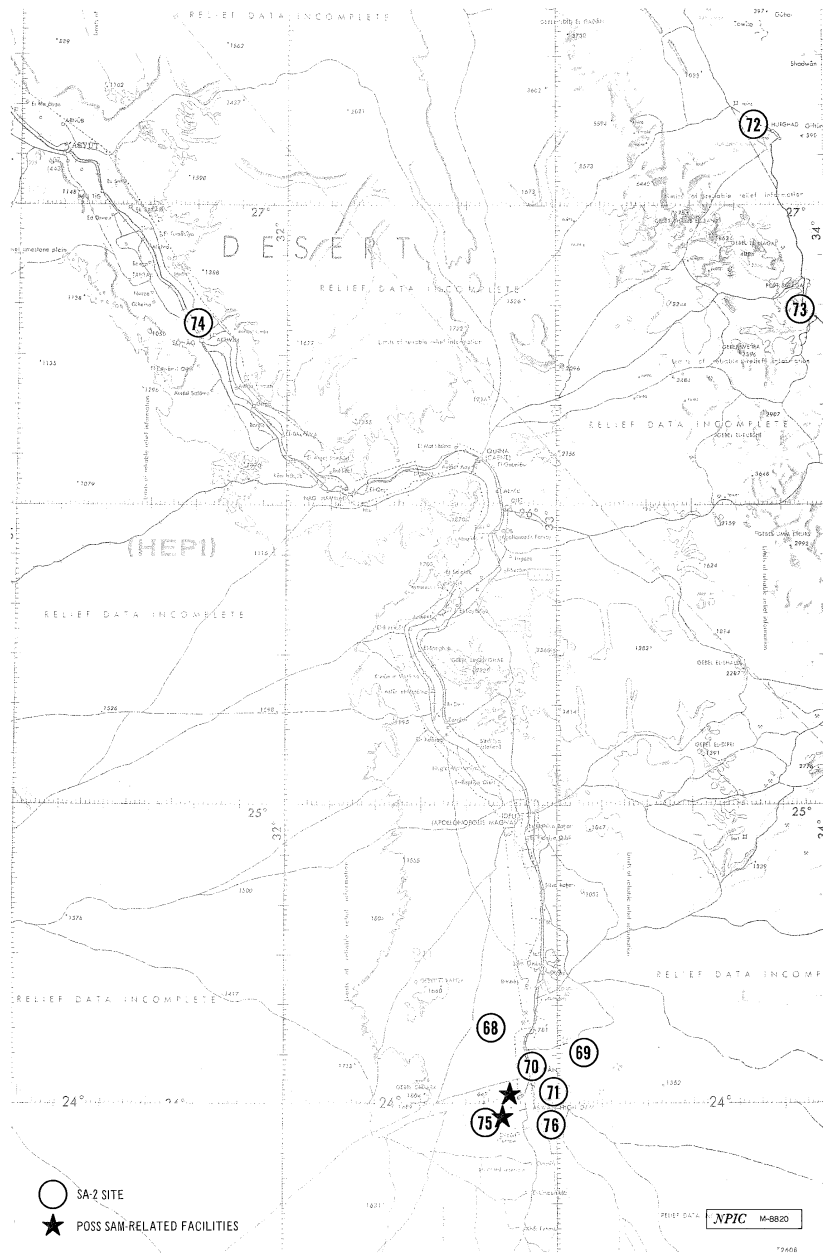


FIGURE 3. SOUTHEAST AREA OF EGYPT

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Table 1. Data Pertaining to SAM Deployment in Egypt.
(Item numbers are keyed to site locations in Figures
2 and 3. Gaps in the sequence of item numbers occur
because these numbers have been assigned to SAM
support facilities which are not included in the table).

Item	Site Name & Designator	Coords	Identified Date	Occupancy Status	Photography Date
1	BUR SAID A13-2	31-13N 032-19E	Dec 64	U *	Mar 70
2	BUR SAID A31-2	31-16N 032-15E	Jun 66	U *	Mar 70
3	BUR SAID A30-2	31-16N 032-14E	Dec 68	U *	Mar 70
4	AL QAHIRAH A15-2	29-56N 031-21E	Jul 69	O #	Mar 70
5	AL QAHIRAH B09-2	30-04N 031-32E	Jul 63	O *	Dec 69
7	AL QAHIRAH B27-2	30-02N 030-54E	Jun 63	U #	Mar 70
8	AL QAHIRAH B33-2	30-17N 031-07E	Jun 63	U *	Mar 70
9	AL QAHIRAH B21-2	29-47N 031-07E	Jul 63	O #	Dec 69
10	AL QAHIRAH DUMMY SITE B09A-2	30-05N 031-36E	Jun 63	O #	Dec 69
11	AL QAHIRAH C27-2	30-02N 030-52E	Dec 63	U *	Dec 69
12	AL QAHIRAH B10-2	30-03N 031-32E	Aug 68	O #	Dec 69
13	AL QAHIRAH B17-2	29-45N 031-21E	Jun 63	O #	Mar 70
14	AL ISMAILIYAH B09-2	30-35N 032-29E	Dec 64	U *	Mar 70
15	AL ISMAILIYAH B19-2	30-23N 032-15E	Dec 64	U *	Mar 70
16	AL ISMAILIYAH B20-2	30-23N 032-11E	Sep 69	U %	Mar 70
17	AL ISMAILIYAH B01-2	30-46N 032-18E	Dec 64	O *	Mar 70
18	AL ISMAILIYAH A19-2	30-28N 032-14E	Jan 65	U *	Mar 70
19	AL ISMAILIYAH B36-2	30-46N 032-13E	Jun 67	O *	Mar 70
21	AL ISMAILIYAH B22-2	30-26N 032-10E	Dec 67	O %	Mar 70
22	AL ISMAILIYAH A28-2	30-37N 032-04E	Dec 67	O #	Mar 70
23	AL ISMAILIYAH A29-2	30-37N 032-08E	Sep 69	O #	Mar 70
24	AL ISKANDARIYAH B05-2	31-18N 030-03E	Jun 63	O #	Mar 70
26	AL ISKANDARIYAH SAM TRAINING SITE	31-18N 030-03E	Aug 68	O %	Sep 69
27	AL ISKANDARIYAH C08-2	31-16N 030-23E	Jul 67	O #	Mar 70
28	AL ISMAILIYAH B19A-2	30-22N 032-14E	Dec 69	O #	Mar 70
30	AL QAHIRAH B04-2	30-20N 031-28E	Jul 63	O #	Mar 70
31	AL QAHIRAH B04A-2	30-21N 031-30E	Aug 68	O *	Mar 70

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Item	Site Name & Designator	Coords	Identified Date	Occupancy Status	Photography Date
32	AS SUWAYS A33-2	30-03N 032-30E	Dec 69	0 #	Mar 70
33	AS SUWAYS B15-2	29-48N 032-42E	Jul 63	U *	Mar 70
34	AS SUWAYS B22-2	29-43N 032-20E	Dec 63	U #	Mar 70
35	AS SUWAYS C21-2	29-40N 032-19E	Sep 69	U *	Mar 70
37	AS SUWAYS C01-2	30-19N 032-32E	Dec 64	U *	Mar 70
38	AS SUWAYS A34-2	30-00N 032-31E	Dec 64	U *	Mar 70
39	AS SUWAYS B06-2	30-04N 032-44E	Jul 63	U *	Mar 70
40	AS SUWAYS B33-2	30-12N 032-22E	Jul 66	0 #	Mar 70
41	AS SUWAYS B33A-2	30-11N 032-23E	Dec 69	U *	Mar 70
42	AS SUWAYS B35-2	30-11N 032-28E	Jan 68	U *	Mar 70
43	AS SUWAYS B32-2	30-05N 032-24E	Feb 69	0 #	Mar 70
44	AS SUWAYS B32A-2	30-08N 032-23E	Sep 69	U *	Mar 70
45	AL QAHIRAH B01-2	30-16N 031-16E	Aug 69	0 #	Mar 70
46	BANI SUWAYF A32-2	29-10N 031-00E	Jun 67	U *	Dec 69
47	TANTA A18-2	30-42N 031-00E	Aug 65	U *	Dec 69
48	AL ISKANDARIYAH B15-2	30-58N 030-05E	Aug 65	U #	Mar 70
49	TANTA C21-2	30-24N 030-47E	Aug 65	0 *	Dec 69
50	AL QAHIRAH D18-2	29-32N 031-18E	Aug 65	0 *	Mar 70
51	AL QAHIRAH C19-2	29-37N 031-12E	Oct 68	U *	Mar 70
52	TANTA C05-2	31-04N 031-19E	Jul 66	0 #	Dec 69
54	TANTA C10-2	30-43N 031-24E	Jun 67	0 #	Mar 70
55	TANTA C27-2	30-45N 030-29E	Sep 66	U #	Mar 70
56	AL QAHIRAH D06-2	30-19N 031-48E	Jun 67	U #	Mar 70
57	AL ISMAILIYAH C29-2	30-40N 031-49E	Aug 67	0 #	Mar 70
58	TANTA C33-2	31-06N 030-44E	Aug 67	0 #	Mar 70
59	TANTA B02-2	31-06N 031-04E	Aug 67	0 #	Dec 69
60	AL QAHIRAH SAM TRAINING COMPLEX NE A	30-11N 031-21E	Nov 67	U *	Dec 69
61	AL QAHIRAH SAM TRAINING COMPLEX NE B	30-13N 031-22E	Nov 67	U *	Dec 69
62	TANTA C09-2	30-51N 031-33E	Feb 69	0 #	Dec 69
63	AL ISKANDARIYAH B24-2	31-05N 029-43E	Dec 63	0 #	Mar 70

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Item	Site Name & Designator	Coords	Identified n Date	Occupancy Status	Photography Date
64	AL ISKANDARIYAH A20-2	31-06N 029-52E	Jul 67	0 #	Mar 70
65	AL ISKANDARIYAH A16-2	31-08N 029-56E	Jul 69	0 #	Mar 70
66	AL ISKANDARIYAH A24-2	31-07N 029-47E	Jun 67	U *	Mar 70
68	ASWAN B33-2	24-15N 032-46E	May 65	U *	Jan 70
69	ASWAN B07-2	24-10N 033-05E	May 65	U *	Dec 69
70	ASWAN A03-2	24-07N 032-54E	Feb 66	0 #	Dec 69
71	ASWAN A13-2	24-01N 032-58E	Feb 69	0 #	Dec 69
72	AL GHURDAQAH A29-2	27-16N 033-45E	Dec 69	0 #	Mar 70
73	BIR SAFAJAH A17-2	26-37N 033-58E	Dec 69	U *	Mar 70
74	SAWHAJ A31-2	26-35N 031-37E	Feb 69	U *	Mar 70
75	ASWAN B22-2	23-57N 032-43E	Jun 66	0 #	Jan 70
76	ASWAN B15-2	23-56N 032-59E	Feb 66	0 #	Dec 69
77	AL QAHIRAH B20-2	29-52N 031-12E	Mar 70	U &	Mar 70
78	AL QAHIRAH B23-2	29-52N 031-03E	Mar 70	0	Mar 70
79	AL ISKANDARIYAH Poss SA-3 Site	31-08N 029-56E	Mar 70	U &	Mar 70
80	AL QAHIRAH B21A-2	29-46N 031-04E	Mar 70	0	Mar 70
81	AL QAHIRAH SA-2 Site	30-06N 030-57E	Mar 70	U	Mar 70
82	AL QAHIRAH SA-2 Site	30-03N 030-56E	Mar 70	0	Mar 70
83	AL ISKANDARIYAH SA-3 Site	30-51N 030-09E	Mar 70	U	Mar 70
84	AL ISKANDARIYAH A06-3	31-15N 030-00E	Mar 70	0	Mar 70
85	AL ISKANDARIYAH A25-3	31-07N 029-47E	Mar 70	0	Mar 70
86	AL ISKANDARIYAH A33-3	31-12N 029-54E	Mar 70	0	Mar 70
87	AL ISKANDARIYAH A22-3	31-03N 029-48E	Mar 70	0	Mar 70
88	AL ISKANDARIYAH Poss SA-3 Site	30-50N 030-14E	Mar 70	U &	Mar 70
89	AL ISKANDARIYAH Poss SA-3 Site	31-03N 029-49E	Mar 70	U &	Mar 70
90	AL ISKANDARIYAH A10-2	31-11N 030-01E	Mar 70	U &	Mar 70

Key to symbols:

U = Unoccupied
 O = Occupied
 # = Usually occupied
 * = Usually unoccupied
 % = Occupancy varies
 & = Site under construction

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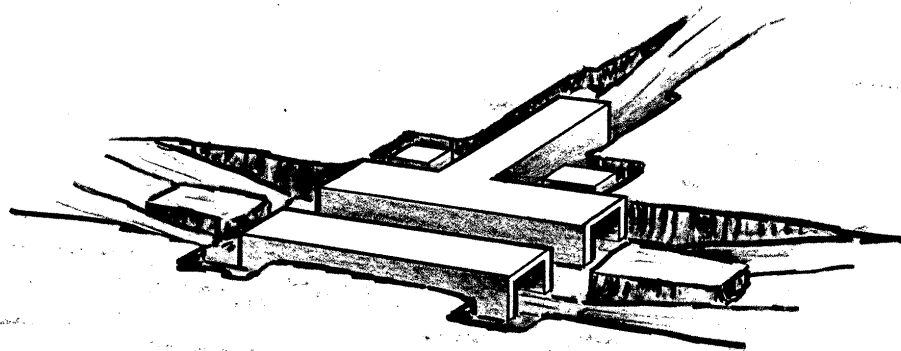
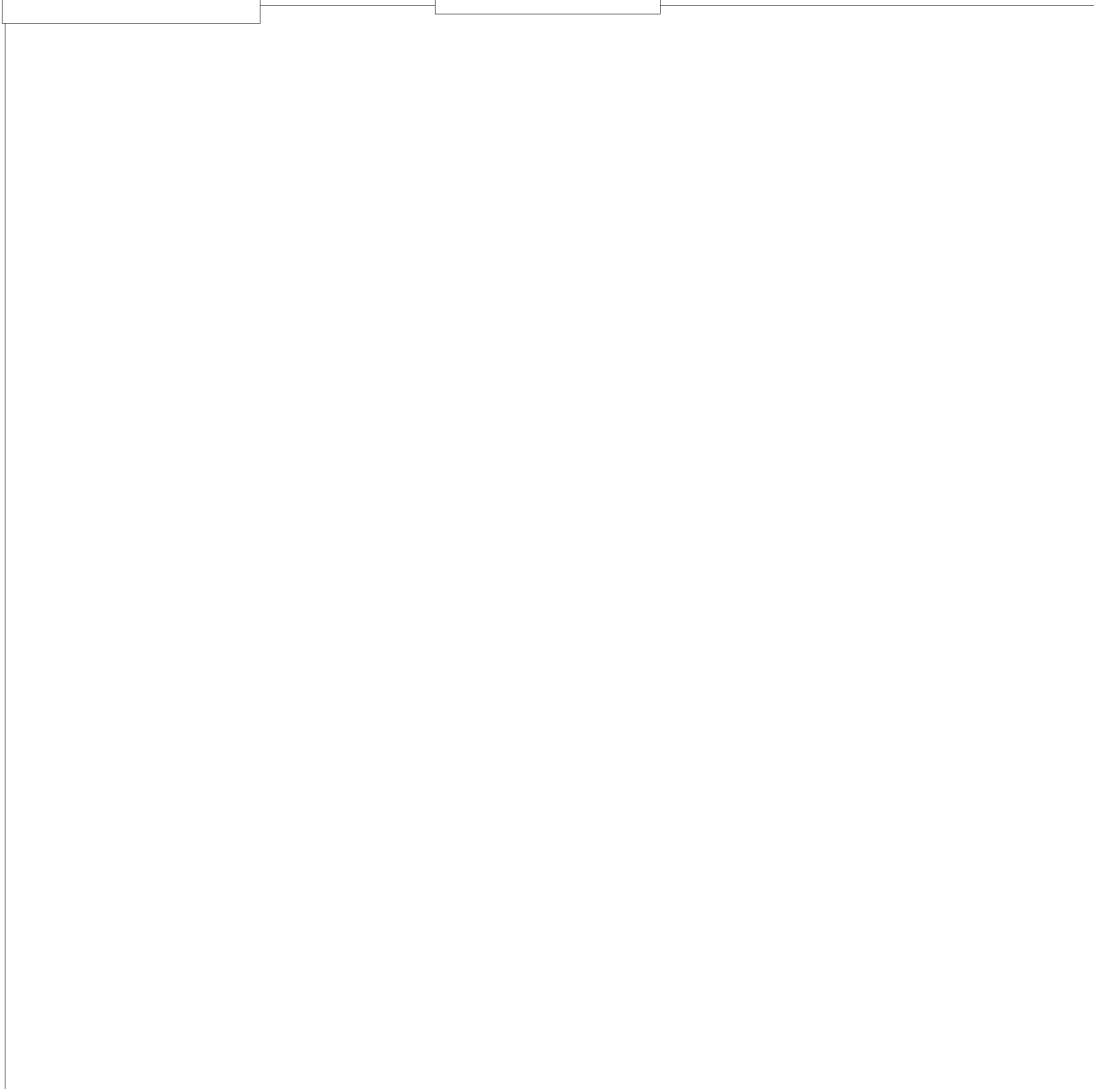
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FIGURE 5. PERSPECTIVE OF POSSIBLE SAM-RELATED FACILITY

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Table 2. Photo Verification of SAM Activity Reported by Collateral Sources.

<u>Source</u>	<u>Type Activity</u>	<u>Reported Area/Location</u>	<u>Confirmed by Photos</u>	<u>Remarks</u>
DIRNSA	Regimental authority	Faqus 30-44N 031-48E	No **	
DIRNSA	Subordinate site	Tilbanal 30-59N 031-26E	No ***	
DIRNSA	Unsubordinated site	El Qurein 30-37N 031-34E	No ***	
DIRNSA	Radio relay (possible site)	Minuf 30-28N 030-56E	No ***	
DIRNSA	Radio relay (possible site)	El Mandarah 31-17N 030-01E	Yes	Al Iskan-dariyah SAM Site A06-3
DIRNSA	Possibly SAM associated	Sindiyun 30-14N 031-12E	No **	
DIRNSA	Possibly SAM associated	Cairo Farouk 30-08N 031-24E	No ***	
DIRNSA	Possibly SAM associated	El Firdan 30-37N 032-15E	No ***	
DIRNSA	Possibly SAM associated	El Qarinein 30-25N 031-04E	No ***	
Attache sighting	Construction - possible site	Cairo West A/F 30-07N 030-53E	Yes	SAM activity (see item 81, Table 1, and item 5, Table 3)
Attache sighting	Low Blow - probable site	Dikheila A/F 31-07N 029-47E	Yes	Al Iskan-dariyah SAM Site A25-3
Attache sighting	Site on breakwater	El Silsila 31-12N 029-54E	Yes	Al Iskan-dariyah SAM Site A33-3
Attache sighting	SA-3 Site	Cairo West A/F 30-07N 030-55E	No	Area obscured by clouds on
Attache sighting	SA-3 Site	Aswan 24-05N 032-54E	No	No photo coverage
	Missile related	30-46N 032-10E	Yes	See Table 3, item 10
"	"	30-44N 032-08E	"	See Table 3, item 11
"	"	30-44N 032-03E	"	See Table 3, item 12
"	"	30-41N 032-08E	"	See Table 3, item 13
"	"	30-35N 032-01E	"	See Table 3, item 14
"	"	30-30N 032-09E	"	See Table 3, item 15
"	"	30-28N 032-04E	"	See Table 3, item 16
"	"	30-26N 031-57E	"	See Table 3, item 17
"	"	30-24N 032-05E	"	See Table 3, item 18
"	"	30-20N 032-01E	"	See Table 3, item 19
"	"	30-10N 032-20E	"	See Table 3, item 20
"	"	30-46N 032-07E	"	See Table 3, item 21

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<u>Source</u>	<u>Type Activity</u>	<u>Reported Area/Location</u>	<u>Confirmed by Photos</u>	<u>Date</u>	<u>Remarks</u>
	Missile related	30-37N 032-08E	Yes	Mar 70	See Table 3, item 22
	"	30-11N 032-16E	"	"	See Table 3, item 23
"	"	30-10N 032-13E	"	"	See Table 3, item 24

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** No observable SAM activity on clear photography

*** Unable to confirm from photography because of poor weather conditions

Table 3. Possible SAM-Related Facilities.
(Remarks are based on an analysis of small-scale KEYHOLE photography of August and December 1969 and March 1970).

<u>No</u>	<u>Location</u>	<u>Status</u>	<u>Identified Date</u>	<u>Remarks</u>
1	29-56N 031-21E	UCO	Mar 70	T-shaped structure or excavation and small areas of ground scarring.
2	29-53N 031-13E	UCO	Mar 70	T-shaped structure or excavation and small areas of ground scarring.
3	29-45N 031-25E	UCO	Mar 70	Linear excavation and several small areas of ground scarring.
4	29-45N 031-13E	UCO	Mar 70	Linear excavation, an L-shaped structure, and small areas of ground scarring.
5	30-06N 030-53E	UCO	Mar 70	Plus-shaped structure or excavation, an L-shaped excavation, and several small areas of ground scarring.
6	30-01N 031-18E	UCO	Aug 69	T-shaped excavation and several small ground scars.
7	30-00N 031-06E	UCO	Mar 70	Open linear excavation with several small ground scars.
8	30-01N 031-02E	UCO	Mar 70	Linear excavation and several ground scars.
9	30-16N 031-29E	UCO	Mar 70	T-shaped excavation and several small ground scars.
10	30-46N 032-10E	UCO*	Mar 70	Linear excavation and some ground scarring.
11	30-44N 032-08E	UCO	Mar 70	Partially covered linear excavation.
12	30-44N 032-03E	UCO*	Mar 70	Open L-shaped excavation.
13	30-41N 032-08E	UCO*	Mar 70	Scarred area damaged by bombing.
14	30-35N 032-01E	UCO	Mar 70	Partially covered T-shaped excavation.
15	30-30N 032-09E	UCO	Mar 70	Open T-shaped excavation.
16	30-28N 032-04E	UCO*	Mar 70	Open plus-shaped excavation.
17	30-26N 031-57E	UCO*	Mar 70	Covered T-shaped excavation.
18	30-24N 032-05E	UCO*	Mar 70	Open linear excavation and some ground scarring.
19	30-20N 032-01E	UCO*	Mar 70	Partially covered T-shaped excavation.
20	30-10N 032-20E	UCO*	Mar 70	Open linear excavation.
21	30-46N 032-07E	UCO	Mar 70	Partially covered linear excavation.
22	30-37N 032-08E	UCO	Mar 70	Plus-shaped scarred area.
23	30-11N 032-16E	UCO	Mar 70	Plus-shaped excavation.
24	30-10N 032-13E	UCO	Mar 70	Some ground scarring -- no definite configuration.
25	24-04N 032-49E	UCO	Dec 69	Open T-shaped excavation.
26	23-57N 032-47E	UCO	Dec 69	Partially covered T-shaped excavation.

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UCO = Facility is under construction.

* = Bomb damage and/or bomb craters are evident.

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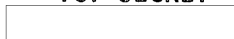
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